CLAIM AMENDMENTS

- 1. (original) An openable and closable umbrella that is

 2 used for protection against the weather, e.g. sun and/or rain, and

 3 where any rain water falling on it is deflected outward by a shape

 4 of a canopy, characterized in that

 5 arms (30) supporting the canopy (10) are wholly above the canopy

 6 (10) and do not pass through the canopy (10).
- 2. (original) The umbrella according to claim 1,
 characterized in that the umbrella has
 a shaft (20) anchorable in or on the ground or in the air
 by an anchor (51),
 a canopy (10) that is in open condition wavy, made of a
- preferably nonstretching membrane or fabric, formed of a whole
 number of polygonal sections with corners (12) defining alternating
 high points (34) and low points (35), centrally traversed by the
 shaft (20), centrally axially slidable along a vertical umbrella
 axis (1) or preferably centrally fixed on the shaft (20), movable
 from a closed folded position inclined to the axis (1), and having
- at least one arm (30) extending radially from and pivoted on the shaft (20) and extending in an open unfolded position from the shaft (20) to corners (12).

an outer edge (11), and

12

- 3. (currently amended) The umbrella according to one of the preceding claims claim 2, characterized in that
 the canopy (10) has an even number 2n of high points (34) and low points (35) so it has n high points (34) and n low points (34) that alternate at the edge (11) of the canopy (10) in the open position and that impart to the canopy (10) a wavy shape, the high points (34) tensioning the canopy (10) up and out and the low points (35) tensioning the canopy (10) down and out.
 - 4. (canceled)
 - 5. (canceled)
 - 6. (canceled)
- 7. (currently amended) The umbrella according to one of
 the preceding claims claim 2, characterized in that
 the canopy (10) has a predetermined number n of low points (35),
 the canopy (10) being drawn up to and geometrically intersecting
 the umbrella axis (1) at a center (13) so as to set a conical shape
 in the canopy (10).
 - 8. (canceled)

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- 9. (currently amended) The umbrella according to one of the preceding claims claim 2, characterized in that the canopy (10) has a predetermined number n of edge rods (15), the edge rods being secured at spaced locations or along their entire length with the respective canopy edge (11) and being alternately inclined to impart a wavy shape to the canopy (10).
- 10. (currently amended) The umbrella according to one
 2 of the preceding claims claim 2, characterized in that
 3 the canopy (10) is tensioned by a preferably elastic annularly
 4 closed canopy-edge bow (16), the edge bow (16) being secured at
 5 spaced locations or along its entire length with the canopy edge
 6 (11) and being oppositely inclined to impart a wavy shape to the
 7 canopy (10).
- 11. (currently amended) The umbrella according to one
 2 of the preceding claims claim 2, characterized in that
 3 at least one section of the canopy (10) is replaced by a canopy4 edge cable (14).
- 1 12. (currently amended) The umbrella according to one
 2 of the preceding claims claim 2, characterized in that
 3 the canopy (10) is also secured at the center (13) to the shaft
 4 (20) or to a sleeve (25), the shape of the canopy (10) being

- variable by changing the axial position along the shaft (20) of the center (13) and/or of the sleeve (25).
- of the preceding claims claim 2, characterized in that
 in the open position the canopy (10) is freely shiftable at the
 shaft (20) along the shaft (20) according to how much the canopy
 (10) is tensioned, the canopy (10) being sealed at the center (13)
 to the shaft (20) and/or to the sleeve (25).
- 14. (currently amended) The umbrella according to one
 of the preceding claims claim 2, characterized in that
 in the open position the canopy (10) is freely shiftable at the
 shaft (20) along the shaft according to how much the canopy (10) is
 tensioned, the canopy (10) being so cut out or constructed at the
 center (13) that it lightly touches or freely surrounds the shaft
 (20) and/or the sleeve (25).
- 1 15. (currently amended) The umbrella according to one
 2 of the preceding claims claim 2, characterized in that
 3 in the open position the canopy (10) is freely shiftable at the
 4 shaft (20) along the shaft according to how much the canopy (10) is
 5 tensioned, the shaft (20) being supported from above and ending
 6 above the canopy (10) so that the canopy (10) is not cutout out

- where it intersects the umbrella axis (1) and only lightly touches 7
- the shaft (20) from below or is spaced from it.
- 16. (currently amended) The umbrella according to one 1 of the preceding claims claim 2, characterized in that 2 3 a line in the canopy (10) between a corner (12) and the umbrella axis (1) is, due to a sewn-in strap or cable, straight when the
- canopy (10) is under not excessive tension, so that the canopy (10)
- forms a fold along the line between the corner (12) and the
- umbrella axis (1). 7
- 17. (currently amended) The umbrella according to one 1
- of the preceding claims claim 2, characterized in that 2
- a line in the canopy (10) between a corner (12) and the umbrella
- axis (1) is, due to a sewn-in strap or cable, arcuate when the
- canopy (10) is under not excessive tension, so that the canopy (10)
- forms a fold along the line between the corner (12) and the
- umbrella axis (1).
 - 18. (canceled)
 - 19. (canceled)
- 20. (currently amended) The umbrella according to one 1
- of the preceding claims claim 2, characterized in that 2

- in the open position of the umbrella, longitudinal axes of the
- 4 upper arms (31) intersect the umbrella axis (1) at a common point
- and the longitudinal axes of the lower arms (32) intersect the
- 6 umbrella axis (1) at another common point, the longitudinal axes of
- the upper arms (31) and of the lower arms (32) intersecting the
- 8 umbrella axis (1) at different common points.
- 1 21. (currently amended) The umbrella according to one
- of the preceding claims claim 2, characterized in that
- in the open position of the umbrella some or all of the arms (30)
- are tensioned upward into positions necessary for the open position
- by respective cables (40) extending between outer ends (33) and the
- 6 shaft (20).
- 1 22. (currently amended) The umbrella according to one
- of the preceding claims claim 2, characterized in that
- in the open position of the umbrella some or all of the arms (30)
- are tensioned upward into positions necessary for the open position
- by diagonal spreaders (43) that extend under tension or compression
- and are preferably pivoted between the arms (30) and the shaft
- 7 (20).
- 23. (canceled)
- 24. (canceled)

5.

25. (currently amended) The umbrella according to one
of the preceding claims claim 2, characterized in that
in the open position of the umbrella some or all of the arms (30)
are tensioned downward into positions necessary for the open
position by diagonal spreaders (43) that extend under tension or
compression and are preferably pivoted between the arms (30) and
the shaft (20).

26. (canceled)

of the preceding claims claim 2, characterized in that the umbrella is opened by an opening and closing mechanism having a sleeve (25) or shiftable telescoping shaft tip (21) on which all the arms (30) are pivoted, and that can move downward along the umbrella axis (1) so that all the arms (30) and the canopy (10) mounted on these arms (30) are pushed or pulled by cables (40) and/or diagonal spreaders (43) into positions necessary for the open position until the canopy (10) is fully tensioned and the entire system assumes a stable position as a result of limits established by the static properties and geometry of the canopy (10) or its parts, in particular the canopy edge (11), the edge rods (15), the edge bow (16), or the edge cables (14) and/or by the cables (40) or diagonal spreaders (43).

- 28. (canceled)
- 29. (canceled)
- 30. (canceled)
- 31. (canceled)
- 32. (canceled)
- of the preceding claims claim 2, characterized in that
 the sum of the lengths a of the arms (30) measured from the shaft
 (20) where they engage the respective diagonal spreaders (43) and
 the lengths d of the diagonal spreaders (43) is the same for all
 arms, where a + d = constant so that in particular umbrellas with
 upper arms (31) and lower arms (32) can be completely folded
 together.
- 34. (currently amended) The umbrella according to one

 of the preceding claims claim 2, characterized in that

 the umbrella is closed by an opening and closing mechanism where

 all the arms (30) and the canopy (10) are secured at the center

 (13) to a common sleeve (25) so that lifting of the sleeve (25)

- raises the center (13) and the canopy (10) assumes a closed
- position folded together at the center.
 - 35. (canceled)
 - 36. (canceled)
 - 37. (canceled)